

ETHYL NITRITE

(SOLUTIONS)

UN 1194

Shipping Name: Ethyl nitrite solutions Hyponitrous ether Other Names:

Nitrous acid, ethyl ester Sweet spirit of nitre



- **WARNING!** EXTREMELY FLAMMABLE!
 - EXPLOSIVE! DECOMPOSES EXPLOSIVELY AT 194°F!
 - POISON! BREATHING THE GAS CAN KILL YOU!
 - Firefighting gear (including SCBA) does not provide adequate protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel

Hazards:

- Extremely irritating to skin, eyes, nose and lungs
- Containers may BLEVE or explode when exposed to fire
- Vapors are heavier than air and will collect and stay in low
- Vapors may travel long distances to ignition sources and flashback
- Vapors in confined areas (e.g., tanks, sewers, buildings) may explode when exposed to fire
- May interfere with the body's ability to use oxygen
- Combustion products include toxic nitrogen oxides

Awareness and Operational Level Training Response:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Stay upwind and uphill
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- For container exposed to fire evacuate the area in all directions because of the risk of BLEVE or explosion
- Evacuate the immediate area and downwind for a large release
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

Description:

- Colorless gas above 63° F; colorless to pale yellow liquid below 63° F
- Sweet rum-like odor
- May be shipped and stored dissolved in ethyl alcohol
- Floats on the surface of water and is slightly soluble in water
- Extremely flammable
- Vapors are heavier than air and will collect and stay in low

Operational Level Training Response:

RELEASE. NO FIRE:

- Stop the release if it can be done safely from a distance
- Prevent material and runoff from entering sewers and waterways if it can be done safely well ahead of the release
- Use large amounts of water well away from the release to disperse vapors - contain runoff
- Ventilate confined area if it can be done without placing personnel at risk

FIRE:

- Approach fire with extreme caution; consider letting fire
- Specially trained personnel operating from a safe distance can fight fires using alcohol resistant (AFFF) foam or dry chemical if available in sufficient amounts. Under favorable conditions, experienced crews can use coordinated fog streams to sweep the flames off the surface of the burning liquid. Keep exposures cool to protect against re-ignition. Do not direct straight streams into the liquid.
- Cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure location

First Aid:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
 - ♦ Inhalation remove the victim to fresh air and give oxygen if available
 - Skin remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
 - Eye rinse eyes with large volumes of water or saline for 15 minutes
 - Swallowed do not make the victim vomit
- Seek medical attention
- For skin burns decontaminate with water and apply a clean dry dressing
- Note to physician: can cause methemoglobinemia; if symptoms indicate, methylene blue is the initial antidote

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